

EAST Search History

EAST Search History (Prior Art)

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|--|---------------------------|------------------|---------|---------------------|
| L1 | 147 | ("4187498" "4472626" "4672377" "4734564" "4758714" "4810866" "4812628" "4822985" "4872113" "4908521" "4943707" "5023782" "5053607" "5175682" "5177342" "5201010" "5231569" "5357563" "5384449").PNL OR ("5679940").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/10/25 18:05 |
| L12 | 304 | ("20010032183" "20010034676" "20010042785" "20010051876" "20010054003" "20020023055" "20020046106" "20020062285" "20020082962" "20020082987" "20020087462" "20020087463" "20020087467" "20020104026" "20020111908" "20020152168" "20020152176" "20020153414" "20020161702" "20020194125" "20030024979" "20030028491" "20030055780" "20030069856" "20030074311" "20030111529" "20030120777" "20030126036" "20030126075" "20030126083" "20030130907" "20030130940" "20030130948" "20030135459" "20030149662" "20030154164" "20030167237" "20030177067" "20030187789" "20030187791" "20030187792" | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/10/25 18:05 |

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| S2 | 49 | (US-20030216988-\$ or US-20030233325-\$ or US-20040245330-\$ or US-20050125350-\$ or US-20030130919-\$ or US-20030183689-\$ or US-20030187786-\$ or US-20030187790-\$ or US-20030187796-\$ or US-20050080716-\$ or US-20050080717-\$ or US-20050080738-\$ or US-20050091132-\$ or US-20050133588-\$ or US-20050137975-\$ or US-20050149430-\$ or US-20050149438-\$ or US-20060006227-\$ or US-20070034682-\$ or US-20070138257-\$ or US-20070138259-\$ or US-20070162761-\$ or US-20060100957-\$ or US-20050125296-\$ or US-20050125338-\$ or US-20050125339-\$).did. or (US-20050125351-\$ or US-20050125360-\$ or US-20050149455-\$ or US-20070073615-\$ or US-20030018549-\$ or US-20030225651-\$ or US-20030216987-\$ or US-20030216989-\$ or US-20030217014-\$ or US-20030225686-\$ or US-20050035191-\$).did. or (US-5679940-\$ or US-5679938-\$ or US-7246740-\$ or US-6119103-\$ or US- | US-PGPUB; USPAT | OR | OFF | 2008/06/06 14:07 |

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| | | 6948656-\$ or US-7131571-\$ or US-7152788-\$ or US-6658393-\$ or US-6978927-\$ or US-7257246-\$ or US-6581043-\$ or US-5680305-\$ or US-5774883-\$).did. | | | | |
| S3 | 2 | (US-5679940-\$ or US-5679938-\$).did. | USPAT | OR | OFF | 2008/06/06 15:05 |
| S4 | 1 | "20020116323".pn. | US-PGPUB; USPAT | OR | OFF | 2008/06/06 15:05 |
| S5 | 3 | S3 S4 | US-PGPUB; USPAT | OR | OFF | 2008/06/06 15:06 |
| S6 | 24851 | first same second same scor \$3 | US-PGPUB; USPAT | OR | OFF | 2008/06/06 15:06 |
| S7 | 2 | S5 and S6 | US-PGPUB; USPAT | OR | OFF | 2008/06/06 15:07 |
| S8 | 22 | ("20020032645" "20020040344" "20020178112" "20030023557" "20030032645" "20030033252" "20030093368" "20030217003" "20040034583" "5677955" "5920847" "6164528" "6247000" "6411942" "6430539" "6647376" "6658393" "6757664" "6839682" "6999943" "7251624" "7333953").PNL | US-PGPUB; USPAT | OR | OFF | 2008/08/11 06:56 |
| S9 | 2 | (second with scoring) and S8 | US-PGPUB; USPAT | OR | OFF | 2008/08/11 06:57 |
| S10 | 47 | (US-20030216988-\$ or US- 20030233325-\$ or US- 20040245330-\$ or US- 20050125350-\$ or US- 20030130919-\$ or US- 20030183689-\$ or US- 20030187786-\$ or US- 20030187790-\$ or US- 20030187796-\$ or US- 20050080716-\$ or US- 20050080717-\$ or US- 20050080738-\$ or US- 20050091132-\$ or US- 20050133588-\$ or US- 20050137975-\$ or US- 20050149430-\$ or US- 20050149438-\$ or US- 20060006227-\$ or US- 20070034682-\$ or US- 20070138257-\$ or US- 20070138259-\$ or US- 20070162761-\$ or US- 20060100957-\$ or US- 20050125296-\$ or US- | US-PGPUB; USPAT | OR | OFF | 2008/08/11 12:05 |

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| S11 | 47 | (US-20030216988-\$ or US-20030233325-\$ or US-20040245330-\$ or US-20050125350-\$ or US-20030130919-\$ or US-20030183689-\$ or US-20030187786-\$ or US-20030187790-\$ or US-20030187796-\$ or US-20050080716-\$ or US-20050080717-\$ or US-20050080738-\$ or US-20050091132-\$ or US-20050133588-\$ or US-20050137975-\$ or US-20050149430-\$ or US-20050149438-\$ or US-20060006227-\$ or US-20070034682-\$ or US-20070138257-\$ or US-20070138259-\$ or US-20070162761-\$ or US-20060100957-\$ or US-20050125296-\$ or US-20050125338-\$ or US-20050125339-\$).did. or (US-20050125351-\$ or US-20050125360-\$ or US-20050149455-\$ or US-20070073615-\$ or US-20030018549-\$ or US-20030225651-\$ or US-20030216987-\$ or US-20030216989-\$ or US-20030217014-\$ or US-20030225686-\$ or US-20050035191-\$).did. or (US-5679940-\$ or US-5679938-\$ or US-7246740- | US-PGPUB; USPAT | OR | OFF | 2008/08/11 12:05 |

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|-----|-------|---|--------------------|----|-----|---------------------|
| | | \$ or US-6119103-\$ or US-6948656-\$ or US-7131571-\$ or US-7152788-\$ or US-6658393-\$ or US-6978927-\$ or US-7257246-\$ or US-6581043-\$ or US-5680305-\$ or US-5774883-\$.did. | | | | |
| S12 | 2 | (US-5679940-\$ or US-5679938-\$.did. | USPAT | OR | OFF | 2008/08/11 12:05 |
| S13 | 1 | "20020116323".pn. | US-PGPUB; USPAT | OR | OFF | 2008/08/11 12:05 |
| S14 | 3 | S12 S13 | US-PGPUB; USPAT | OR | OFF | 2008/08/11 12:05 |
| S15 | 25386 | first same second same scor \$3 | US-PGPUB; USPAT | OR | OFF | 2008/08/11 12:05 |
| S16 | 2 | S14 and S15 | US-PGPUB; USPAT | OR | OFF | 2008/08/11 12:05 |
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| S18 | 2 | (second with scoring) and S17 | US-PGPUB; USPAT | OR | OFF | 2008/08/11 12:05 |
| S19 | 45 | (US-20030216988-\$ or US- 20030233325-\$ or US- 20040245330-\$ or US- 20050125350-\$ or US- 20030130919-\$ or US- 20030183689-\$ or US- 20030187786-\$ or US- 20030187790-\$ or US- 20030187796-\$ or US- 20050080716-\$ or US- 20050080717-\$ or US- 20050080738-\$ or US- 20050091132-\$ or US- 20050133588-\$ or US- 20050137975-\$ or US- 20050149430-\$ or US- 20050149438-\$ or US- 20060006227-\$ or US- 20070034682-\$ or US- 20070138257-\$ or US- 20070138259-\$ or US- 20070162761-\$ or US- 20060100957-\$ or US- | US-PGPUB; USPAT | OR | OFF | 2008/11/23 21:50 |

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|-----|----|--|--------------------|----|-----|---------------------|
| | | 20050125296-\$ or US- 20050125338-\$ or US- 20050125339-\$).did. or (US-20050125351-\$ or US- 20050125360-\$ or US- 20050149455-\$ or US- 20070073615-\$ or US- 20030018549-\$ or US- 20030225651-\$ or US- 20030216987-\$ or US- 20030216989-\$ or US- 20030217014-\$ or US- 20030225686-\$ or US- 20050035191-\$).did. or (US-5679940-\$ or US- 5679938-\$ or US-7246740- \$ or US-6119103-\$ or US- 6948656-\$ or US-7131571- \$ or US-7152788-\$ or US- 6658393-\$ or US-6978927- \$ or US-7257246-\$ or US- 6581043-\$ or US-5680305- \$ or US-5774883-\$).did. | | | | |
| S20 | 45 | (US-20030216988-\$ or US- 20030233325-\$ or US- 20040245330-\$ or US- 20050125350-\$ or US- 20030130919-\$ or US- 20030183689-\$ or US- 20030187786-\$ or US- 20030187790-\$ or US- 20030187796-\$ or US- 20050080716-\$ or US- 20050080717-\$ or US- 20050080738-\$ or US- 20050091132-\$ or US- 20050133588-\$ or US- 20050137975-\$ or US- 20050149430-\$ or US- 20050149438-\$ or US- 20060006227-\$ or US- 20070034682-\$ or US- 20070138257-\$ or US- 20070138259-\$ or US- 20070162761-\$ or US- 20060100957-\$ or US- 20050125296-\$ or US- 20050125338-\$ or US- 20050125339-\$).did. or (US-20050125351-\$ or US- 20050125360-\$ or US- 20050149455-\$ or US- 20070073615-\$ or US- 20030018549-\$ or US- 20030225651-\$ or US- 20030216987-\$ or US- 20030216989-\$ or US- 20030217014-\$ or US- 20030225686-\$ or US- 20050035191-\$).did. or (US-5679940-\$ or US- | US-PGPUB; USPAT | OR | OFF | 2008/11/23 21:50 |

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|-----|-------|--|--------------------|----|-----|---------------------|
| | | 5679938-\$ or US-7246740-\$ or US-6119103-\$ or US-6948656-\$ or US-7131571-\$ or US-7152788-\$ or US-6658393-\$ or US-6978927-\$ or US-7257246-\$ or US-6581043-\$ or US-5680305-\$ or US-5774883-\$).did. | | | | |
| S21 | 2 | (US-5679940-\$ or US-5679938-\$).did. | USPAT | OR | OFF | 2008/11/23 21:50 |
| S22 | 1 | "20020116323".pn. | US-PGPUB; USPAT | OR | OFF | 2008/11/23 21:50 |
| S23 | 3 | S21 S22 | US-PGPUB; USPAT | OR | OFF | 2008/11/23 21:50 |
| S24 | 26280 | first same second same scor \$3 | US-PGPUB; USPAT | OR | OFF | 2008/11/23 21:50 |
| S25 | 2 | S23 and S24 | US-PGPUB; USPAT | OR | OFF | 2008/11/23 21:50 |
| S26 | 22 | ["20020032645" "20020040344" "20020178112" "20030023557" "20030032645" "20030033252" "20030093368" "20030217003" "20040034583" "5677955" "5920847" "6164528" "6247000" "6411942" "6430539" "6647376" "6658393" "6757664" "6839682" "6999943" "7251624" "7333953").PN. | US-PGPUB; USPAT | OR | OFF | 2008/11/23 21:50 |
| S27 | 2 | (second with scoring) and S26 | US-PGPUB; USPAT | OR | OFF | 2008/11/23 21:50 |
| S28 | 45 | (US-20030216988-\$ or US- 20030233325-\$ or US- 20040245330-\$ or US- 20050125350-\$ or US- 20030130919-\$ or US- 20030183689-\$ or US- 20030187786-\$ or US- 20030187790-\$ or US- 20030187796-\$ or US- 20050080716-\$ or US- 20050080717-\$ or US- 20050080738-\$ or US- 20050091132-\$ or US- 20050133588-\$ or US- 20050137975-\$ or US- 20050149430-\$ or US- 20050149438-\$ or US- 20060006227-\$ or US- 20070034682-\$ or US- 20070138257-\$ or US- 20070138259-\$ or US- 20070162761-\$ or US- | US-PGPUB; USPAT | OR | OFF | 2008/11/23 21:50 |

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|-----|----|---|--------------------|----|-----|---------------------|
| | | 20060100957-\$ or US- 20050125296-\$ or US- 20050125338-\$ or US- 20050125339-\$).did. or (US-20050125351-\$ or US- 20050125360-\$ or US- 20050149455-\$ or US- 20070073615-\$ or US- 20030018549-\$ or US- 20030225651-\$ or US- 20030216987-\$ or US- 20030216989-\$ or US- 20030217014-\$ or US- 20030225686-\$ or US- 20050035191-\$).did. or (US-5679940-\$ or US- 5679938-\$ or US-7246740- \$ or US-6119103-\$ or US- 6948656-\$ or US-7131571- \$ or US-7152788-\$ or US- 6658393-\$ or US-6978927- \$ or US-7257246-\$ or US- 6581043-\$ or US-5680305- \$ or US-5774883-\$).did. | | | | |
| S29 | 45 | (US-20030216988-\$ or US- 20030233325-\$ or US- 20040245330-\$ or US- 20050125350-\$ or US- 20030130919-\$ or US- 20030183689-\$ or US- 20030187786-\$ or US- 20030187790-\$ or US- 20030187796-\$ or US- 20050080716-\$ or US- 20050080717-\$ or US- 20050080738-\$ or US- 20050091132-\$ or US- 20050133588-\$ or US- 20050137975-\$ or US- 20050149430-\$ or US- 20050149438-\$ or US- 20060006227-\$ or US- 20070034682-\$ or US- 20070138257-\$ or US- 20070138259-\$ or US- 20070162761-\$ or US- 20060100957-\$ or US- 20050125296-\$ or US- 20050125338-\$ or US- 20050125339-\$).did. or (US-20050125351-\$ or US- 20050125360-\$ or US- 20050149455-\$ or US- 20070073615-\$ or US- 20030018549-\$ or US- 20030225651-\$ or US- 20030216987-\$ or US- 20030216989-\$ or US- 20030217014-\$ or US- 20030225686-\$ or US- 20050035191-\$).did. or | US-PGPUB; USPAT | OR | OFF | 2008/11/23 21:50 |

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|-----|-------|---|--------------------|----|-----|---------------------|
| | | (US-5679940-\$ or US-5679938-\$ or US-7246740-\$ or US-6119103-\$ or US-6948656-\$ or US-7131571-\$ or US-7152788-\$ or US-6658393-\$ or US-6978927-\$ or US-7257246-\$ or US-6581043-\$ or US-5680305-\$ or US-5774883-\$).did. | | | | |
| S30 | 2 | (US-5679940-\$ or US-5679938-\$).did | USPAT | OR | OFF | 2008/11/23 21:50 |
| S31 | 1 | "20020116323".pn. | US-PGPUB; USPAT | OR | OFF | 2008/11/23 21:50 |
| S32 | 3 | S30 S31 | US-PGPUB; USPAT | OR | OFF | 2008/11/23 21:50 |
| S33 | 26280 | first same second same scor \$3 | US-PGPUB; USPAT | OR | OFF | 2008/11/23 21:50 |
| S34 | 2 | S32 and S33 | US-PGPUB; USPAT | OR | OFF | 2008/11/23 21:50 |
| S35 | 22 | ["20020032645" "20020040344" "20020178112" "20030023557" "20030032645" "20030033252" "20030093368" "20030217003" "20040034583" "5677955" "5920847" "6164528" "6247000" "6411942" "6430539" "6647376" "6658393" "6757664" "6839682" "6999943" "7251624" "7333953").PN. | US-PGPUB; USPAT | OR | OFF | 2008/11/23 21:50 |
| S36 | 2 | (second with scoring) and S35 | US-PGPUB; USPAT | OR | OFF | 2008/11/23 21:50 |
| S37 | 41 | (US-20030216988-\$ or US-20030233325-\$ or US-20040245330-\$ or US-20050125350-\$ or US-20030130919-\$ or US-20030183689-\$ or US-20030187786-\$ or US-20030187790-\$ or US-20030187796-\$ or US-20050080716-\$ or US-20050080717-\$ or US-20050080738-\$ or US-20050091132-\$ or US-20050133588-\$ or US-20050137975-\$ or US-20050149430-\$ or US-20050149438-\$ or US-20060006227-\$ or US-20070034682-\$ or US-20070138257-\$ or US-20070138259-\$ or US- | US-PGPUB; USPAT | OR | OFF | 2009/04/25 16:08 |

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|-----|----|--|--------------------|----|-----|---------------------|
| | | 20070162761-\$ or US- 20060100957-\$ or US- 20050125296-\$ or US- 20050125338-\$ or US- 20050125339-\$).did. or (US-20050125351-\$ or US- 20050125360-\$ or US- 20050149455-\$ or US- 20070073615-\$ or US- 20030018549-\$ or US- 20030225651-\$ or US- 20030216987-\$ or US- 20030216989-\$ or US- 20030217014-\$ or US- 20030225686-\$ or US- 20050035191-\$).did. or (US-5679940-\$ or US- 5679938-\$ or US-7246740- \$ or US-6119103-\$ or US- 6948656-\$ or US-7131571- \$ or US-7152788-\$ or US- 6658393-\$ or US-6978927- \$ or US-7257246-\$ or US- 6581043-\$ or US-5680305- \$ or US-5774883-\$).did. | | | | |
| S38 | 41 | (US-20030216988-\$ or US- 20030233325-\$ or US- 20040245330-\$ or US- 20050125350-\$ or US- 20030130919-\$ or US- 20030183689-\$ or US- 20030187786-\$ or US- 20030187790-\$ or US- 20030187796-\$ or US- 20050080716-\$ or US- 20050080717-\$ or US- 20050080738-\$ or US- 20050091132-\$ or US- 20050133588-\$ or US- 20050137975-\$ or US- 20050149430-\$ or US- 20050149438-\$ or US- 20060006227-\$ or US- 20070034682-\$ or US- 20070138257-\$ or US- 20070138259-\$ or US- 20070162761-\$ or US- 20060100957-\$ or US- 20050125296-\$ or US- 20050125338-\$ or US- 20050125339-\$).did. or (US-20050125351-\$ or US- 20050125360-\$ or US- 20050149455-\$ or US- 20070073615-\$ or US- 20030018549-\$ or US- 20030225651-\$ or US- 20030216987-\$ or US- 20030216989-\$ or US- 20030217014-\$ or US- 20030225686-\$ or US- | US-PGPUB; USPAT | OR | OFF | 2009/04/25 16:08 |

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|-----|-------|--|-----------------|----|-----|------------------|
| | | 20050035191-\$).did. or (US-5679940-\$ or US-5679938-\$ or US-7246740-\$ or US-6119103-\$ or US-6948656-\$ or US-7131571-\$ or US-7152788-\$ or US-6658393-\$ or US-6978927-\$ or US-7257246-\$ or US-6581043-\$ or US-5680305-\$ or US-5774883-\$).did. | | | | |
| S39 | 2 | (US-5679940-\$ or US-5679938-\$).did. | USPAT | OR | OFF | 2009/04/25 16:08 |
| S40 | 1 | "20020116323".pn. | US-PGPUB; USPAT | OR | OFF | 2009/04/25 16:08 |
| S41 | 3 | S39 S40 | US-PGPUB; USPAT | OR | OFF | 2009/04/25 16:08 |
| S42 | 27590 | first same second same scor \$3 | US-PGPUB; USPAT | OR | OFF | 2009/04/25 16:08 |
| S43 | 2 | S41 and S42 | US-PGPUB; USPAT | OR | OFF | 2009/04/25 16:08 |
| S44 | 22 | ("20020032645" "20020040344" "20020178112" "20030023557" "20030032645" "20030033252" "20030093368" "20030217003" "20040034583" "5677955" "5920847" "6164528" "6247000" "6411942" "6430539" "6647376" "6658393" "6757664" "6839682" "6999943" "7251624" "7333953").PN. | US-PGPUB; USPAT | OR | OFF | 2009/04/25 16:08 |
| S45 | 2 | (second with scoring) and S44 | US-PGPUB; USPAT | OR | OFF | 2009/04/25 16:08 |
| S46 | 41 | (US-20030216988-\$ or US-20030233325-\$ or US-20040245330-\$ or US-20050125350-\$ or US-20030130919-\$ or US-20030183689-\$ or US-20030187786-\$ or US-20030187790-\$ or US-20030187796-\$ or US-20050080716-\$ or US-20050080717-\$ or US-20050080738-\$ or US-20050091132-\$ or US-20050133588-\$ or US-20050137975-\$ or US-20050149430-\$ or US-20050149438-\$ or US-20060006227-\$ or US-20070034682-\$ or US-20070138257-\$ or US- | US-PGPUB; USPAT | OR | OFF | 2009/04/25 16:08 |

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|-----|----|---|--------------------|----|-----|---------------------|
| | | 20070138259-\$ or US- 20070162761-\$ or US- 20060100957-\$ or US- 20050125296-\$ or US- 20050125338-\$ or US- 20050125339-\$).did. or (US-20050125351-\$ or US- 20050125360-\$ or US- 20050149455-\$ or US- 20070073615-\$ or US- 20030018549-\$ or US- 20030225651-\$ or US- 20030216987-\$ or US- 20030216989-\$ or US- 20030217014-\$ or US- 20030225686-\$ or US- 20050035191-\$).did. or (US-5679940-\$ or US- 5679938-\$ or US-7246740- \$ or US-6119103-\$ or US- 6948656-\$ or US-7131571- \$ or US-7152788-\$ or US- 6658393-\$ or US-6978927- \$ or US-7257246-\$ or US- 6581043-\$ or US-5680305- \$ or US-5774883-\$).did. | | | | |
| S47 | 41 | (US-20030216988-\$ or US- 20030233325-\$ or US- 20040245330-\$ or US- 20050125350-\$ or US- 20030130919-\$ or US- 20030183689-\$ or US- 20030187786-\$ or US- 20030187790-\$ or US- 20030187796-\$ or US- 20050080716-\$ or US- 20050080717-\$ or US- 20050080738-\$ or US- 20050091132-\$ or US- 20050133588-\$ or US- 20050137975-\$ or US- 20050149430-\$ or US- 20050149438-\$ or US- 20060006227-\$ or US- 20070034682-\$ or US- 20070138257-\$ or US- 20070138259-\$ or US- 20070162761-\$ or US- 20060100957-\$ or US- 20050125296-\$ or US- 20050125338-\$ or US- 20050125339-\$).did. or (US-20050125351-\$ or US- 20050125360-\$ or US- 20050149455-\$ or US- 20070073615-\$ or US- 20030018549-\$ or US- 20030225651-\$ or US- 20030216987-\$ or US- 20030216989-\$ or US- 20030217014-\$ or US- | US-PGPUB; USPAT | OR | OFF | 2009/04/25 16:08 |

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|-----|-------|---|--------------------|----|-----|------------------|
| | | 20030225686-\$ or US-20050035191-\$).did. or (US-5679940-\$ or US-5679938-\$ or US-7246740-\$ or US-6119103-\$ or US-6948656-\$ or US-7131571-\$ or US-7152788-\$ or US-6658393-\$ or US-6978927-\$ or US-7257246-\$ or US-6581043-\$ or US-5680305-\$ or US-5774883-\$).did. | | | | |
| S48 | 2 | (US-5679940-\$ or US-5679938-\$).did. | USPAT | OR | OFF | 2009/04/25 16:08 |
| S49 | 1 | "20020116323".pn. | US-PGPUB; USPAT | OR | OFF | 2009/04/25 16:08 |
| S50 | 3 | S48 S49 | US-PGPUB; USPAT | OR | OFF | 2009/04/25 16:08 |
| S51 | 27590 | first same second same scor \$3 | US-PGPUB; USPAT | OR | OFF | 2009/04/25 16:08 |
| S52 | 2 | S50 and S51 | US-PGPUB; USPAT | OR | OFF | 2009/04/25 16:08 |
| S53 | 22 | ("20020032645" "20020040344" "20020178112" "20030023557" "20030032645" "20030033252" "20030093368" "20030217003" "20040034583" "5677955" "5920847" "6164528" "6247000" "6411942" "6430539" "6647376" "6658393" "6757664" "6839682" "6999943" "7251624" "7333953").PN. | US-PGPUB; USPAT | OR | OFF | 2009/04/25 16:08 |
| S54 | 2 | (second with scoring) and S53 | US-PGPUB; USPAT | OR | OFF | 2009/04/25 16:08 |
| S55 | 41 | (US-20030216988-\$ or US-20030233325-\$ or US-20040245330-\$ or US-20050125350-\$ or US-20030130919-\$ or US-20030183689-\$ or US-20030187786-\$ or US-20030187790-\$ or US-20030187796-\$ or US-20050080716-\$ or US-20050080717-\$ or US-20050080738-\$ or US-20050091132-\$ or US-20050133589-\$ or US-20050137975-\$ or US-20050149430-\$ or US-20050149438-\$ or US-20060006227-\$ or US-20070034682-\$ or US- | US-PGPUB; USPAT | OR | OFF | 2009/04/25 16:08 |

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|-----|----|--|--------------------|----|-----|---------------------|
| | | 20070138257-\$ or US- 20070138259-\$ or US- 20070162761-\$ or US- 20060100957-\$ or US- 20050125296-\$ or US- 20050125338-\$ or US- 20050125339-\$).did. or (US-20050125351-\$ or US- 20050125360-\$ or US- 20050149455-\$ or US- 20070073615-\$ or US- 20030018549-\$ or US- 20030225651-\$ or US- 20030216987-\$ or US- 20030216989-\$ or US- 20030217014-\$ or US- 20030225686-\$ or US- 20050035191-\$).did. or (US-5679940-\$ or US- 5679938-\$ or US-7246740- \$ or US-6119103-\$ or US- 6948656-\$ or US-7131571- \$ or US-7152788-\$ or US- 6658393-\$ or US-6978927- \$ or US-7257246-\$ or US- 6581043-\$ or US-5680305- \$ or US-5774883-\$).did. | | | | |
| S66 | 41 | (US-20030216988-\$ or US- 20030233325-\$ or US- 20040245330-\$ or US- 20050125350-\$ or US- 20030130919-\$ or US- 20030183689-\$ or US- 20030187786-\$ or US- 20030187790-\$ or US- 20030187796-\$ or US- 20050080716-\$ or US- 20050080717-\$ or US- 20050080738-\$ or US- 20050091132-\$ or US- 20050133588-\$ or US- 20050137975-\$ or US- 20050149430-\$ or US- 20050149438-\$ or US- 20060006227-\$ or US- 20070034682-\$ or US- 20070138257-\$ or US- 20070138259-\$ or US- 20070162761-\$ or US- 20060100957-\$ or US- 20050125296-\$ or US- 20050125338-\$ or US- 20050125339-\$).did. or (US-20050125351-\$ or US- 20050125360-\$ or US- 20050149455-\$ or US- 20070073615-\$ or US- 20030018549-\$ or US- 20030225651-\$ or US- 20030216987-\$ or US- 20030216989-\$ or US- | US-PGPUB; USPAT | OR | OFF | 2009/04/25 16:08 |

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|-----|-------|---|-----------------|----|-----|------------------|
| | | 20030217014-\$ or US-20030225686-\$ or US-20050035191-\$).did. or (US-5679940-\$ or US-5679938-\$ or US-7246740-\$ or US-6119103-\$ or US-6948656-\$ or US-7131571-\$ or US-7152788-\$ or US-6658393-\$ or US-6978927-\$ or US-7257246-\$ or US-6581043-\$ or US-5680305-\$ or US-5774883-\$).did. | | | | |
| S67 | 2 | (US-5679940-\$ or US-5679938-\$).did. | USPAT | OR | OFF | 2009/04/25 16:08 |
| S68 | 1 | "20020116323".pn. | US-PGPUB; USPAT | OR | OFF | 2009/04/25 16:08 |
| S69 | 3 | S67 S68 | US-PGPUB; USPAT | OR | OFF | 2009/04/25 16:08 |
| S60 | 27590 | first same second same scor \$3 | US-PGPUB; USPAT | OR | OFF | 2009/04/25 16:08 |
| S61 | 2 | S69 and S60 | US-PGPUB; USPAT | OR | OFF | 2009/04/25 16:08 |
| S62 | 22 | (("20020032645" "20020040344" "20020178112" "20030023557" "20030032645" "20030033252" "20030093368" "20030217003" "20040034583" "5677955" "5920847" "6164528" "6247000" "6411942" "6430539" "6647376" "6658393" "6757664" "6839682" "6999943" "7251624" "7333953").PN. | US-PGPUB; USPAT | OR | OFF | 2009/04/25 16:08 |
| S63 | 2 | (second with scoring) and S62 | US-PGPUB; USPAT | OR | OFF | 2009/04/25 16:08 |
| S64 | 41 | (US-20030216988-\$ or US-20030233325-\$ or US-20040245330-\$ or US-20050125350-\$ or US-20030130919-\$ or US-20030183689-\$ or US-20030187786-\$ or US-20030187790-\$ or US-20030187796-\$ or US-20050080716-\$ or US-20050080717-\$ or US-20050080738-\$ or US-20050091132-\$ or US-20050133588-\$ or US-20050137975-\$ or US-20050149430-\$ or US-20050149438-\$ or US-2006006227-\$ or US- | US-PGPUB; USPAT | OR | OFF | 2009/04/25 16:08 |

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|-----|----|---|--------------------|----|-----|---------------------|
| | | 20070034682-\$ or US- 20070138257-\$ or US- 20070138259-\$ or US- 20070162761-\$ or US- 20060100957-\$ or US- 20050125296-\$ or US- 20050125338-\$ or US- 20050125339-\$).did. or (US-20050125351-\$ or US- 20050125360-\$ or US- 20050149455-\$ or US- 20070073615-\$ or US- 20030018549-\$ or US- 20030225651-\$ or US- 20030216987-\$ or US- 20030216989-\$ or US- 20030217014-\$ or US- 20030225686-\$ or US- 20050035191-\$).did. or (US-5679940-\$ or US- 5679938-\$ or US-7246740- \$ or US-6119103-\$ or US- 6948656-\$ or US-7131571- \$ or US-7152788-\$ or US- 6658393-\$ or US-6978927- \$ or US-7257246-\$ or US- 6581043-\$ or US-5680305- \$ or US-5774883-\$).did. | | | | |
| S65 | 41 | (US-20030216988-\$ or US- 20030233325-\$ or US- 20040245330-\$ or US- 20050125350-\$ or US- 20030130919-\$ or US- 20030183689-\$ or US- 20030187786-\$ or US- 20030187790-\$ or US- 20030187796-\$ or US- 20050080716-\$ or US- 20050080717-\$ or US- 20050080738-\$ or US- 20050091132-\$ or US- 20050133588-\$ or US- 20050137975-\$ or US- 20050149430-\$ or US- 20050149438-\$ or US- 20060006227-\$ or US- 20070034682-\$ or US- 20070138257-\$ or US- 20070138259-\$ or US- 20070162761-\$ or US- 20060100957-\$ or US- 20050125296-\$ or US- 20050125338-\$ or US- 20050125339-\$).did. or (US-20050125351-\$ or US- 20050125360-\$ or US- 20050149455-\$ or US- 20070073615-\$ or US- 20030018549-\$ or US- 20030225651-\$ or US- 20030216987-\$ or US- | US-PGPUB; USPAT | OR | OFF | 2009/04/25 16:08 |

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| | | 20030216989-\$ or US-20030217014-\$ or US-20030225686-\$ or US-20050035191-\$).did. or (US-5679940-\$ or US-5679938-\$ or US-7246740-\$ or US-6119103-\$ or US-6948656-\$ or US-7131571-\$ or US-7152788-\$ or US-6658393-\$ or US-6978927-\$ or US-7257246-\$ or US-6581043-\$ or US-5680305-\$ or US-5774883-\$).did. | | | | |
| S66 | 2 | (US-5679940-\$ or US-5679938-\$).did. | USPAT | OR | OFF | 2009/04/25 16:08 |
| S67 | 1 | "20020116323".pn. | US-PGPUB; USPAT | OR | OFF | 2009/04/25 16:08 |
| S68 | 3 | S66 S67 | US-PGPUB; USPAT | OR | OFF | 2009/04/25 16:08 |
| S69 | 27590 | first same second same scor \$3 | US-PGPUB; USPAT | OR | OFF | 2009/04/25 16:08 |
| S70 | 2 | S68 and S69 | US-PGPUB; USPAT | OR | OFF | 2009/04/25 16:08 |
| S71 | 22 | ("20020032645" "20020040344" "20020178112" "20030023557" "20030032645" "20030033252" "20030093368" "20030217003" "20040034583" "5677955" "5920847" "6164528" "6247000" "6411942" "6430539" "6647376" "6658393" "6757664" "6839682" "6999943" "7251624" "7333953").PNL | US-PGPUB; USPAT | OR | OFF | 2009/04/25 16:08 |
| S72 | 2 | (second with scoring) and S71 | US-PGPUB; USPAT | OR | OFF | 2009/04/25 16:08 |
| S73 | 26 | (US-20030216988-\$ or US-20030233325-\$ or US-20040245330-\$ or US-20050125350-\$ or US-20030130919-\$ or US-20030183689-\$ or US-20030187786-\$ or US-20030187790-\$ or US-20030187796-\$ or US-20050080716-\$ or US-20050080717-\$ or US-20050080738-\$ or US-20050091132-\$ or US-20050133588-\$ or US-20050137975-\$ or US-20050149430-\$ or US-20050149438-\$ or US- | US-PGPUB; USPAT | OR | OFF | 2009/10/25 15:54 |

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|-----|----|--|--------------------|----|-----|---------------------|
| | | 20060006227-\$ or US- 20070034682-\$ or US- 20070138257-\$ or US- 20070138259-\$ or US- 20070162761-\$ or US- 20060100957-\$ or US- 20050125296-\$ or US- 20050125338-\$ or US- 20050125339-\$).did. or (US-20050125351-\$ or US- 20050125360-\$ or US- 20050149455-\$ or US- 20070073615-\$ or US- 20030018549-\$ or US- 20030225651-\$ or US- 20030216987-\$ or US- 20030216989-\$ or US- 20030217014-\$ or US- 20030225686-\$ or US- 20050035191-\$).did. or (US-5679940-\$ or US- 5679938-\$ or US-7246740- \$ or US-6119103-\$ or US- 6948656-\$ or US-7131571- \$ or US-7152788-\$ or US- 6658393-\$ or US-6978927- \$ or US-7257246-\$ or US- 6581043-\$ or US-5680305- \$ or US-5774883-\$).did. | | | | |
| S74 | 26 | (US-20030216988-\$ or US- 20030233325-\$ or US- 20040245330-\$ or US- 20050125350-\$ or US- 20030130919-\$ or US- 20030183689-\$ or US- 20030187786-\$ or US- 20030187790-\$ or US- 20030187796-\$ or US- 20050080716-\$ or US- 20050080717-\$ or US- 20050080738-\$ or US- 20050091132-\$ or US- 20050133588-\$ or US- 20050137975-\$ or US- 20050149430-\$ or US- 20050149438-\$ or US- 20060006227-\$ or US- 20070034682-\$ or US- 20070138257-\$ or US- 20070138259-\$ or US- 20070162761-\$ or US- 20060100957-\$ or US- 20050125296-\$ or US- 20050125338-\$ or US- 20050125339-\$).did. or (US-20050125351-\$ or US- 20050125360-\$ or US- 20050149455-\$ or US- 20070073615-\$ or US- 20030018549-\$ or US- 20030225651-\$ or US- | US-PGPUB; USPAT | OR | OFF | 2009/10/25 15:54 |

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|-----|-------|---|--------------------|----|-----|---------------------|
| | | 20030216987-\$ or US- 20030216989-\$ or US- 20030217014-\$ or US- 20030225686-\$ or US- 20050035191-\$).did. or (US-5679940-\$ or US- 5679938-\$ or US-7246740- \$ or US-6119103-\$ or US- 6948656-\$ or US-7131571- \$ or US-7152788-\$ or US- 6658393-\$ or US-6978927- \$ or US-7257246-\$ or US- 6581043-\$ or US-5680305- \$ or US-5774883-\$).did. | | | | |
| S75 | 2 | (US-5679940-\$ or US- 5679938-\$).did. | USPAT | OR | OFF | 2009/10/25 15:54 |
| S76 | 1 | "20020116323".pn. | US-PGPUB; USPAT | OR | OFF | 2009/10/25 15:54 |
| S77 | 3 | S75 S76 | US-PGPUB; USPAT | OR | OFF | 2009/10/25 15:54 |
| S78 | 29197 | first same second same scor \$3 | US-PGPUB; USPAT | OR | OFF | 2009/10/25 15:54 |
| S79 | 2 | S77 and S78 | US-PGPUB; USPAT | OR | OFF | 2009/10/25 15:54 |
| S80 | 22 | ("20020032645" "20020040344" "20020178112" "20030023557" "20030032645" "20030033252" "20030093368" "20030217003" "20040034583" "5677955" "5920847" "6164528" "6247000" "6411942" "6430539" "6647376" "6658393" "6757664" "6839682" "6999943" "7251624" "7333953").PN. | US-PGPUB; USPAT | OR | OFF | 2009/10/25 15:54 |
| S81 | 2 | (second with scoring) and S80 | US-PGPUB; USPAT | OR | OFF | 2009/10/25 15:54 |

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| S82 | 26 | (US-20030216988-\$ or US-20030233325-\$ or US-20040245330-\$ or US-20050125350-\$ or US-200301130919-\$ or US-20030183689-\$ or US-20030187786-\$ or US-20030187790-\$ or US-20030187796-\$ or US-20050080716-\$ or US-20050080717-\$ or US-20050080738-\$ or US-20050091132-\$ or US-20050133588-\$ or US-20050137975-\$ or US-20050149430-\$ or US-20050149438-\$ or US-20060006227-\$ or US-20070034682-\$ or US-20070138257-\$ or US-20070138259-\$ or US-20070162761-\$ or US-20060100957-\$ or US-20050125296-\$ or US-20050125338-\$ or US-20050125339-\$), did. or (US-20050125351-\$ or US-20050125360-\$ or US-20050149455-\$ or US-20070073615-\$ or US-20030018549-\$ or US-20030225651-\$ or US-20030216987-\$ or US-20030216989-\$ or US-20030217014-\$ or US-20030225686-\$ or US-20050035191-\$), did. or (US-5679940-\$ or US-5679938-\$ or US-7246740-\$ or US-6119103-\$ or US-6948656-\$ or US-7131571-\$ or US-7152788-\$ or US-6658393-\$ or US-6978927-\$ or US-7257246-\$ or US-6581043-\$ or US-5680305-\$ or US-5774883-\$), did. | US-PGPUB; USPAT | OR | OFF | 2009/10/25 15:54 |
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| S83 | 26 | (US-20030216988-\$ or US-20030233325-\$ or US-20040245330-\$ or US-20050125350-\$ or US-20030130919-\$ or US-20030183689-\$ or US-20030187786-\$ or US-20030187790-\$ or US-20030187796-\$ or US-20050080716-\$ or US-20050080717-\$ or US-20050080738-\$ or US-20050091132-\$ or US-20050133588-\$ or US-20050137975-\$ or US-20050149430-\$ or US-20050149438-\$ or US-20060006227-\$ or US-20070034682-\$ or US-20070138257-\$ or US-20070138259-\$ or US-20070162761-\$ or US-20060100957-\$ or US-20050125296-\$ or US-20050125338-\$ or US-20050125339-\$).did. or (US-20050125351-\$ or US-20050125360-\$ or US-20050149455-\$ or US-20070073615-\$ or US-20030018549-\$ or US-20030225651-\$ or US-20030216987-\$ or US-20030216989-\$ or US-20030217014-\$ or US-20030225686-\$ or US-20050035191-\$).did. or (US-5679940-\$ or US-5679938-\$ or US-7246740-\$ or US-6119103-\$ or US-6948656-\$ or US-7131571-\$ or US-7152788-\$ or US-6658393-\$ or US-6978927-\$ or US-7257246-\$ or US-6581043-\$ or US-5680305-\$ or US-5774883-\$).did. | US-PGPUB; USPAT | OR | OFF | 2009/10/25 15:54 |
| S84 | 2 | (US-5679940-\$ or US-5679938-\$).did. | USPAT | OR | OFF | 2009/10/25 15:54 |
| S85 | 1 | "20020116323".pn. | US-PGPUB; USPAT | OR | OFF | 2009/10/25 15:54 |
| S86 | 3 | S84 S85 | US-PGPUB; USPAT | OR | OFF | 2009/10/25 15:54 |
| S87 | 29197 | first same second same scor \$3 | US-PGPUB; USPAT | OR | OFF | 2009/10/25 15:54 |
| S88 | 2 | S86 and S87 | US-PGPUB; USPAT | OR | OFF | 2009/10/25 15:54 |

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| S89 | 22 | ("20020032645" "20020040344" "20020178112" "20030023557" "20030032645" "20030033252" "20030093368" "20030217003" "20040034583" "5677955" "5920847" "6164528" "6247000" "6411942" "6430539" "6647376" "6658393" "6757664" "6839682" "6999943" "7251624" "7333953").PN | US-PGPUB; USPAT | OR | OFF | 2009/10/25 15:54 |
| S90 | 2 | (second with scoring) and S89 | US-PGPUB; USPAT | OR | OFF | 2009/10/25 15:54 |
| S91 | 26 | (US-20030216988-\$ or US- 20030233325-\$ or US- 20040245330-\$ or US- 20050125350-\$ or US- 20030130919-\$ or US- 20030183689-\$ or US- 20030187786-\$ or US- 20030187790-\$ or US- 20030187796-\$ or US- 20050080716-\$ or US- 20050080717-\$ or US- 20050080738-\$ or US- 20050091132-\$ or US- 20050133588-\$ or US- 20050137975-\$ or US- 20050149430-\$ or US- 20050149438-\$ or US- 20060006227-\$ or US- 20070034682-\$ or US- 20070138257-\$ or US- 20070138259-\$ or US- 20070162761-\$ or US- 20060100957-\$ or US- 20050125296-\$ or US- 20050125338-\$ or US- 20050125339-\$).did. or (US-20050125351-\$ or US- 20050125360-\$ or US- 20050149455-\$ or US- 20070073615-\$ or US- 20030018549-\$ or US- 20030225651-\$ or US- 20030216987-\$ or US- 20030216989-\$ or US- 20030217014-\$ or US- 20030225686-\$ or US- 20050035191-\$).did. or (US-5679940-\$ or US- 5679938-\$ or US-7246740- \$ or US-6119103-\$ or US- 6948656-\$ or US-7131571- \$ or US-7152788-\$ or US- 6658393-\$ or US-6978927- | US-PGPUB; USPAT | OR | OFF | 2009/10/25 15:54 |

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| | | \$ or US-7257246-\$ or US-6581043-\$ or US-5680305-\$ or US-5774883-\$).did. | | | | |
| S92 | 26 | (US-20030216988-\$ or US-20030233325-\$ or US-20040245330-\$ or US-20050125350-\$ or US-20030130919-\$ or US-20030183689-\$ or US-20030187786-\$ or US-20030187790-\$ or US-20030187796-\$ or US-20050080716-\$ or US-20050080717-\$ or US-20050080738-\$ or US-20050091132-\$ or US-20050133588-\$ or US-20050137975-\$ or US-20050149430-\$ or US-20050149438-\$ or US-2006006227-\$ or US-20070034682-\$ or US-20070138257-\$ or US-20070138259-\$ or US-20070162761-\$ or US-20060100957-\$ or US-20050125296-\$ or US-20050125338-\$ or US-20050125339-\$).did. or (US-20050125351-\$ or US-20050125360-\$ or US-20050149455-\$ or US-20070073615-\$ or US-20030018549-\$ or US-20030225651-\$ or US-20030216987-\$ or US-20030216989-\$ or US-20030217014-\$ or US-20030225686-\$ or US-20050035191-\$).did. or (US-5679940-\$ or US-5679938-\$ or US-7246740-\$ or US-6119103-\$ or US-6948656-\$ or US-7131571-\$ or US-7152788-\$ or US-6658393-\$ or US-6978927-\$ or US-7257246-\$ or US-6581043-\$ or US-5680305-\$ or US-5774883-\$).did. | US-PGPUB; USPAT | OR | OFF | 2009/10/25 15:54 |
| S93 | 2 | (US-5679940-\$ or US-5679938-\$).did. | USPAT | OR | OFF | 2009/10/25 15:54 |
| S94 | 1 | "20020116323".pn. | US-PGPUB; USPAT | OR | OFF | 2009/10/25 15:54 |
| S95 | 3 | S93 S94 | US-PGPUB; USPAT | OR | OFF | 2009/10/25 15:54 |
| S96 | 29197 | first same second same scor \$3 | US-PGPUB; USPAT | OR | OFF | 2009/10/25 15:54 |
| S97 | 2 | S95 and S96 | US-PGPUB; USPAT | OR | OFF | 2009/10/25 15:54 |

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| S98 | 22 | ("20020032645" "20020040344" "20020178112" "20030023557" "20030032645" "20030033252" "20030093368" "20030217003" "20040034583" "5677955" "5920847" "6164528" "6247000" "6411942" "6430539" "6647376" "6658393" "6757664" "6839682" "6999943" "7251624" "7333953").PNL | US-PGPUB; USPAT | OR | OFF | 2009/10/25 15:54 |
| S99 | 2 | (second with scoring) and S98 | US-PGPUB; USPAT | OR | OFF | 2009/10/25 15:54 |
| S100 | 26 | (US-20030216988-\$ or US- 20030233325-\$ or US- 20040245330-\$ or US- 20050125350-\$ or US- 20030130919-\$ or US- 20030183689-\$ or US- 20030187786-\$ or US- 20030187790-\$ or US- 20030187796-\$ or US- 20050080716-\$ or US- 20050080717-\$ or US- 20050080738-\$ or US- 20050091132-\$ or US- 20050133588-\$ or US- 20050137975-\$ or US- 20050149430-\$ or US- 20050149438-\$ or US- 20060006227-\$ or US- 20070034682-\$ or US- 20070138257-\$ or US- 20070138259-\$ or US- 20070162761-\$ or US- 20060100957-\$ or US- 20050125296-\$ or US- 20050125338-\$ or US- 20050125339-\$).did. or (US-20050125351-\$ or US- 20050125360-\$ or US- 20050149455-\$ or US- 20070073615-\$ or US- 20030018549-\$ or US- 20030225651-\$ or US- 20030216987-\$ or US- 20030216989-\$ or US- 20030217014-\$ or US- 20030225686-\$ or US- 20050035191-\$).did. or (US-5679940-\$ or US- 5679938-\$ or US-7246740- \$ or US-6119103-\$ or US- 6948656-\$ or US-7131571- \$ or US-7152788-\$ or US- 6658393-\$ or US-6978927- | US-PGPUB; USPAT | OR | OFF | 2009/10/25 15:54 |

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| | | \$ or US-7257246-\$ or US-6581043-\$ or US-5680305-\$ or US-5774883-\$).did. | | | | |
| S101 | 26 | (US-20030216988-\$ or US-20030233325-\$ or US-20040245330-\$ or US-20050125350-\$ or US-20030130919-\$ or US-20030183689-\$ or US-20030187786-\$ or US-20030187790-\$ or US-20030187796-\$ or US-20050080716-\$ or US-20050080717-\$ or US-20050080738-\$ or US-20050091132-\$ or US-20050133588-\$ or US-20050137975-\$ or US-20050149430-\$ or US-20050149438-\$ or US-20060006227-\$ or US-20070034682-\$ or US-20070138257-\$ or US-20070138259-\$ or US-20070162761-\$ or US-20060100957-\$ or US-20050125296-\$ or US-20050125338-\$ or US-20050125339-\$).did. or (US-20050125351-\$ or US-20050125360-\$ or US-20050149455-\$ or US-20070073615-\$ or US-20030018549-\$ or US-20030225651-\$ or US-20030216987-\$ or US-20030216989-\$ or US-20030217014-\$ or US-20030225686-\$ or US-20050035191-\$).did. or (US-5679940-\$ or US-5679938-\$ or US-7246740-\$ or US-6119103-\$ or US-6948656-\$ or US-7131571-\$ or US-7152788-\$ or US-6658393-\$ or US-6978927-\$ or US-7257246-\$ or US-6581043-\$ or US-5680305-\$ or US-5774883-\$).did. | US-PGPUB; USPAT | OR | OFF | 2009/10/25 15:54 |
| S102 | 2 | (US-5679940-\$ or US-5679938-\$).did. | USPAT | OR | OFF | 2009/10/25 15:54 |
| S103 | 1 | "20020116323".pn. | US-PGPUB; USPAT | OR | OFF | 2009/10/25 15:54 |
| S104 | 3 | S102 S103 | US-PGPUB; USPAT | OR | OFF | 2009/10/25 15:54 |
| S105 | 29197 | first same second same scor \$3 | US-PGPUB; USPAT | OR | OFF | 2009/10/25 15:54 |
| S106 | 2 | S104 and S105 | US-PGPUB; USPAT | OR | OFF | 2009/10/25 15:54 |

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| S107 | 22 | ("20020032645" "20020040344" "20020178112" "20030023557" "20030032645" "20030033252" "20030093368" "20030217003" "20040034583" "5677955" "5920847" "6164528" "6247000" "6411942" "6430539" "6647376" "6658393" "6757664" "6839682" "6999943" "7251624" "7333953").PNL | US-PGPUB; USPAT | OR | OFF | 2009/10/25 15:54 |
| S108 | 2 | (second with scoring) and S107 | US-PGPUB; USPAT | OR | OFF | 2009/10/25 15:54 |
| S109 | 26 | (US-20030216988-\$ or US- 20030233325-\$ or US- 20040245330-\$ or US- 20050125350-\$ or US- 20030130919-\$ or US- 20030183689-\$ or US- 20030187786-\$ or US- 20030187790-\$ or US- 20030187796-\$ or US- 20050080716-\$ or US- 20050080717-\$ or US- 20050080738-\$ or US- 20050091132-\$ or US- 20050133588-\$ or US- 20050137975-\$ or US- 20050149430-\$ or US- 20050149438-\$ or US- 20060006227-\$ or US- 20070034682-\$ or US- 20070138257-\$ or US- 20070138259-\$ or US- 20070162761-\$ or US- 20060100957-\$ or US- 20050125296-\$ or US- 20050125338-\$ or US- 20050125339-\$).did. or (US-20050125351-\$ or US- 20050125360-\$ or US- 20050149455-\$ or US- 20070073615-\$ or US- 20030018549-\$ or US- 20030225651-\$ or US- 20030216987-\$ or US- 20030216989-\$ or US- 20030217014-\$ or US- 20030225686-\$ or US- 20050035191-\$).did. or (US-5679940-\$ or US- 5679938-\$ or US-7246740- \$ or US-6119103-\$ or US- 6948656-\$ or US-7131571- \$ or US-7152788-\$ or US- 6658393-\$ or US-6978927- | US-PGPUB; USPAT | OR | OFF | 2009/10/25 15:54 |

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| | | \$ or US-7257246-\$ or US-6581043-\$ or US-5680305-\$ or US-5774883-\$).did. | | | | |
| S110 | 26 | (US-20030216988-\$ or US-20030233325-\$ or US-20040245330-\$ or US-20050125350-\$ or US-20030130919-\$ or US-20030183689-\$ or US-20030187786-\$ or US-20030187790-\$ or US-20030187796-\$ or US-20050080716-\$ or US-20050080717-\$ or US-20050080738-\$ or US-20050091132-\$ or US-20050133588-\$ or US-20050137975-\$ or US-20050149430-\$ or US-20050149438-\$ or US-20060006227-\$ or US-20070034682-\$ or US-20070138257-\$ or US-20070138259-\$ or US-20070162761-\$ or US-20060100957-\$ or US-20050125296-\$ or US-20050125338-\$ or US-20050125339-\$).did. or (US-20050125351-\$ or US-20050125360-\$ or US-20050149455-\$ or US-20070073615-\$ or US-20030018549-\$ or US-20030225651-\$ or US-20030216987-\$ or US-20030216989-\$ or US-20030217014-\$ or US-20030225686-\$ or US-20050035191-\$).did. or (US-5679940-\$ or US-5679938-\$ or US-7246740-\$ or US-6119103-\$ or US-6948656-\$ or US-7131571-\$ or US-7152788-\$ or US-6658393-\$ or US-6978927-\$ or US-7257246-\$ or US-6581043-\$ or US-5680305-\$ or US-5774883-\$).did. | US-PGPUB; USPAT | OR | OFF | 2009/10/25 15:54 |
| S111 | 2 | (US-5679940-\$ or US-5679938-\$).did. | USPAT | OR | OFF | 2009/10/25 15:54 |
| S112 | 1 | "20020116323".pn. | US-PGPUB; USPAT | OR | OFF | 2009/10/25 15:54 |
| S113 | 3 | S111 S112 | US-PGPUB; USPAT | OR | OFF | 2009/10/25 15:54 |
| S114 | 29197 | first same second same scor \$3 | US-PGPUB; USPAT | OR | OFF | 2009/10/25 15:54 |
| S115 | 2 | S113 and S114 | US-PGPUB; USPAT | OR | OFF | 2009/10/25 15:54 |

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| S116 | 22 | ("20020032645" "20020040344" "20020178112" "20030023557" "20030032645" "20030033252" "20030093368" "20030217003" "20040034583" "5677955" "5920847" "6164528" "6247000" "6411942" "6430539" "6647376" "6658393" "6757664" "6839682" "6999943" "7251624" "7333953").PNL | US-PGPUB; USPAT | OR | OFF | 2009/10/25 15:54 |
| S117 | 2 | (second with scoring) and S116 | US-PGPUB; USPAT | OR | OFF | 2009/10/25 15:54 |
| S118 | 26 | (US-20030216988-\$ or US- 20030233325-\$ or US- 20040245330-\$ or US- 20050125350-\$ or US- 20030130919-\$ or US- 20030183689-\$ or US- 20030187786-\$ or US- 20030187790-\$ or US- 20030187796-\$ or US- 20050080716-\$ or US- 20050080717-\$ or US- 20050080738-\$ or US- 20050091132-\$ or US- 20050133588-\$ or US- 20050137975-\$ or US- 20050149430-\$ or US- 20050149438-\$ or US- 20060006227-\$ or US- 20070034682-\$ or US- 20070138257-\$ or US- 20070138259-\$ or US- 20070162761-\$ or US- 20060100957-\$ or US- 20050125296-\$ or US- 20050125338-\$ or US- 20050125339-\$).did. or (US-20050125351-\$ or US- 20050125360-\$ or US- 20050149455-\$ or US- 20070073615-\$ or US- 20030018549-\$ or US- 20030225651-\$ or US- 20030216987-\$ or US- 20030216989-\$ or US- 20030217014-\$ or US- 20030225686-\$ or US- 20050035191-\$).did. or (US-5679940-\$ or US- 5679938-\$ or US-7246740- \$ or US-6119103-\$ or US- 6948656-\$ or US-7131571- \$ or US-7152788-\$ or US- 6658393-\$ or US-6978927- | US-PGPUB; USPAT | OR | OFF | 2009/10/25 15:54 |

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| | | \$ or US-7257246-\$ or US-6581043-\$ or US-5680305-\$ or US-5774883-\$).did. | | | | |
| SI19 | 26 | (US-20030216988-\$ or US-20030233325-\$ or US-20040245330-\$ or US-20050125350-\$ or US-20030130919-\$ or US-20030183689-\$ or US-20030187786-\$ or US-20030187790-\$ or US-20030187796-\$ or US-20050080716-\$ or US-20050080717-\$ or US-20050080738-\$ or US-20050091132-\$ or US-20050133588-\$ or US-20050137975-\$ or US-20050149430-\$ or US-20050149438-\$ or US-20060006227-\$ or US-20070034682-\$ or US-20070138257-\$ or US-20070138259-\$ or US-20070162761-\$ or US-20060100957-\$ or US-20050125296-\$ or US-20050125338-\$ or US-20050125339-\$).did. or (US-20050125351-\$ or US-20050125360-\$ or US-20050149455-\$ or US-20070073615-\$ or US-20030018549-\$ or US-20030225651-\$ or US-20030216987-\$ or US-20030216989-\$ or US-20030217014-\$ or US-20030225686-\$ or US-20050035191-\$).did. or (US-5679940-\$ or US-5679938-\$ or US-7246740-\$ or US-6119103-\$ or US-6948656-\$ or US-7131571-\$ or US-7152788-\$ or US-6658393-\$ or US-6978927-\$ or US-7257246-\$ or US-6581043-\$ or US-5680305-\$ or US-5774883-\$).did. | US-PGPUB; USPAT | OR | OFF | 2009/10/25 15:54 |
| SI20 | 2 | (US-5679940-\$ or US-5679938-\$).did. | USPAT | OR | OFF | 2009/10/25 15:54 |
| SI21 | 1 | "20020116323".pn. | US-PGPUB; USPAT | OR | OFF | 2009/10/25 15:54 |
| SI22 | 3 | SI20 SI21 | US-PGPUB; USPAT | OR | OFF | 2009/10/25 15:54 |
| SI23 | 29197 | first same second same scor \$3 | US-PGPUB; USPAT | OR | OFF | 2009/10/25 15:54 |
| SI24 | 2 | SI22 and SI23 | US-PGPUB; USPAT | OR | OFF | 2009/10/25 15:54 |

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| S125 | 22 | ("20020032645" "20020040344" "20020178112" "20030023557" "20030032645" "20030033252" "20030093368" "20030217003" "20040034583" "5677955" "5920847" "6164528" "6247000" "6411942" "6430539" "6647376" "6658393" "6757664" "6839682" "6999943" "7251624" "7333953").PNL | US-PGPUB; USPAT | OR | OFF | 2009/10/25 15:54 |
| S126 | 2 | (second with scoring) and S125 | US-PGPUB; USPAT | OR | OFF | 2009/10/25 15:54 |
| S127 | 26 | (US-20030216988-\$ or US- 20030233325-\$ or US- 20040245330-\$ or US- 20050125350-\$ or US- 20030130919-\$ or US- 20030183689-\$ or US- 20030187786-\$ or US- 20030187790-\$ or US- 20030187796-\$ or US- 20050080716-\$ or US- 20050080717-\$ or US- 20050080738-\$ or US- 20050091132-\$ or US- 20050133588-\$ or US- 20050137975-\$ or US- 20050149430-\$ or US- 20050149438-\$ or US- 20060006227-\$ or US- 20070034682-\$ or US- 20070138257-\$ or US- 20070138259-\$ or US- 20070162761-\$ or US- 20060100957-\$ or US- 20050125296-\$ or US- 20050125338-\$ or US- 20050125339-\$).did. or (US-20050125351-\$ or US- 20050125360-\$ or US- 20050149455-\$ or US- 20070073615-\$ or US- 20030018549-\$ or US- 20030225651-\$ or US- 20030216987-\$ or US- 20030216989-\$ or US- 20030217014-\$ or US- 20030225686-\$ or US- 20050035191-\$).did. or (US-5679940-\$ or US- 5679938-\$ or US-7246740- \$ or US-6119103-\$ or US- 6948656-\$ or US-7131571- \$ or US-7152788-\$ or US- 6658393-\$ or US-6978927- | US-PGPUB; USPAT | OR | OFF | 2009/10/25 15:54 |

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|------|-------|---|--------------------|----|-----|---------------------|
| | | \$ or US-7257246-\$ or US-6581043-\$ or US-5680305-\$ or US-5774883-\$).did. | | | | |
| S128 | 26 | (US-20030216988-\$ or US-20030233325-\$ or US-20040245330-\$ or US-20050125350-\$ or US-20030130919-\$ or US-20030183689-\$ or US-20030187786-\$ or US-20030187790-\$ or US-20030187796-\$ or US-20050080716-\$ or US-20050080717-\$ or US-20050080738-\$ or US-20050091132-\$ or US-20050133588-\$ or US-20050137975-\$ or US-20050149430-\$ or US-20050149438-\$ or US-20060006227-\$ or US-20070034682-\$ or US-20070138257-\$ or US-20070138259-\$ or US-20070162761-\$ or US-20060100957-\$ or US-20050125296-\$ or US-20050125338-\$ or US-20050125339-\$).did. or (US-20050125351-\$ or US-20050125360-\$ or US-20050149455-\$ or US-20070073615-\$ or US-20030018549-\$ or US-20030225651-\$ or US-20030216987-\$ or US-20030216989-\$ or US-20030217014-\$ or US-20030225686-\$ or US-20050035191-\$).did. or (US-5679940-\$ or US-5679938-\$ or US-7246740-\$ or US-6119103-\$ or US-6948656-\$ or US-7131571-\$ or US-7152788-\$ or US-6658393-\$ or US-6978927-\$ or US-7257246-\$ or US-6581043-\$ or US-5680305-\$ or US-5774883-\$).did. | US-PGPUB; USPAT | OR | OFF | 2009/10/25 15:54 |
| S129 | 2 | (US-5679940-\$ or US-5679938-\$).did. | USPAT | OR | OFF | 2009/10/25 15:54 |
| S130 | 1 | "20020116323".pn. | US-PGPUB; USPAT | OR | OFF | 2009/10/25 15:54 |
| S131 | 3 | S129 S130 | US-PGPUB; USPAT | OR | OFF | 2009/10/25 15:54 |
| S132 | 29197 | first same second same scor \$3 | US-PGPUB; USPAT | OR | OFF | 2009/10/25 15:54 |
| S133 | 2 | S131 and S132 | US-PGPUB; USPAT | OR | OFF | 2009/10/25 15:54 |

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| S134 | 22 | ("20020032645" "20020040344" "20020178112" "20030023557" "20030032645" "20030033252" "20030093368" "20030217003" "20040034583" "5677955" "5920847" "6164528" "6247000" "6411942" "6430539" "6647376" "6658393" "6757664" "6839682" "6999943" "7251624" "7333953").PNL | US-PGPUB; USPAT | OR | OFF | 2009/10/25 15:54 |
| S135 | 2 | (second with scoring) and S134 | US-PGPUB; USPAT | OR | OFF | 2009/10/25 15:54 |
| S136 | 26 | (US-20030216988-\$ or US- 20030233325-\$ or US- 20040245330-\$ or US- 20050125350-\$ or US- 20030130919-\$ or US- 20030183689-\$ or US- 20030187786-\$ or US- 20030187790-\$ or US- 20030187796-\$ or US- 20050080716-\$ or US- 20050080717-\$ or US- 20050080738-\$ or US- 20050091132-\$ or US- 20050133588-\$ or US- 20050137975-\$ or US- 20050149430-\$ or US- 20050149438-\$ or US- 20060006227-\$ or US- 20070034682-\$ or US- 20070138257-\$ or US- 20070138259-\$ or US- 20070162761-\$ or US- 20060100957-\$ or US- 20050125296-\$ or US- 20050125338-\$ or US- 20050125339-\$).did. or (US-20050125351-\$ or US- 20050125360-\$ or US- 20050149455-\$ or US- 20070073615-\$ or US- 20030018549-\$ or US- 20030225651-\$ or US- 20030216987-\$ or US- 20030216989-\$ or US- 20030217014-\$ or US- 20030225686-\$ or US- 20050035191-\$).did. or (US-5679940-\$ or US- 5679938-\$ or US-7246740- \$ or US-6119103-\$ or US- 6948656-\$ or US-7131571- \$ or US-7152788-\$ or US- 6658393-\$ or US-6978927- | US-PGPUB; USPAT | OR | OFF | 2009/10/25 15:54 |

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|------|-------|---|--------------------|----|-----|---------------------|
| | | \$ or US-7257246-\$ or US-6581043-\$ or US-5680305-\$ or US-5774883-\$).did. | | | | |
| S137 | 26 | (US-20030216988-\$ or US-20030233325-\$ or US-20040245330-\$ or US-20050125350-\$ or US-20030130919-\$ or US-20030183689-\$ or US-20030187786-\$ or US-20030187790-\$ or US-20030187796-\$ or US-20050080716-\$ or US-20050080717-\$ or US-20050080738-\$ or US-20050091132-\$ or US-20050133588-\$ or US-20050137975-\$ or US-20050149430-\$ or US-20050149438-\$ or US-20060006227-\$ or US-20070034682-\$ or US-20070138257-\$ or US-20070138259-\$ or US-20070162761-\$ or US-20060100957-\$ or US-20050125296-\$ or US-20050125338-\$ or US-20050125339-\$).did. or (US-20050125351-\$ or US-20050125360-\$ or US-20050149455-\$ or US-20070073615-\$ or US-20030018549-\$ or US-20030225651-\$ or US-20030216987-\$ or US-20030216989-\$ or US-20030217014-\$ or US-20030225686-\$ or US-20050035191-\$).did. or (US-5679940-\$ or US-5679938-\$ or US-7246740-\$ or US-6119103-\$ or US-6948656-\$ or US-7131571-\$ or US-7152788-\$ or US-6658393-\$ or US-6978927-\$ or US-7257246-\$ or US-6581043-\$ or US-5680305-\$ or US-5774883-\$).did. | US-PGPUB; USPAT | OR | OFF | 2009/10/25 15:54 |
| S138 | 2 | (US-5679940-\$ or US-5679938-\$).did. | USPAT | OR | OFF | 2009/10/25 15:54 |
| S139 | 1 | "20020116323".pn. | US-PGPUB; USPAT | OR | OFF | 2009/10/25 15:54 |
| S140 | 3 | S138 S139 | US-PGPUB; USPAT | OR | OFF | 2009/10/25 15:54 |
| S141 | 29197 | first same second same scor \$3 | US-PGPUB; USPAT | OR | OFF | 2009/10/25 15:54 |
| S142 | 2 | S140 and S141 | US-PGPUB; USPAT | OR | OFF | 2009/10/25 15:54 |

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| SI43 | 22 | ("20020032645" "20020040344" "20020178112" "20030023557" "20030032645" "20030033252" "20030093368" "20030217003" "20040034583" "5677955" "5920847" "6164528" "6247000" "6411942" "6430539" "6647376" "6658393" "6757664" "6839682" "6999943" "7251624" "7333953").PN. | US-PGPUB; USPAT | OR | OFF | 2009/10/25 15:54 |
| SI44 | 2 | (second with scoring) and SI43 | US-PGPUB; USPAT | OR | OFF | 2009/10/25 15:54 |
| SI45 | 2021 | first same second same scor \$3 | EPO; JPO; DERWENT | OR | OFF | 2009/10/25 15:55 |
| SI46 | 822 | (select\$3 identif\$3 choos\$3 pick\$3) with (score\$3 assessment) near3 (engine algorithm) | US-PGPUB; USPAT | OR | OFF | 2009/10/25 16:39 |
| SI47 | 739 | (multiple plural\$) with (score\$3 assess\$5 evaluat \$4) near3 (engin\$3 algorithm\$ system\$2) | EPO; JPO; DERWENT | OR | OFF | 2009/10/25 16:41 |
| SI48 | 6305 | (multiple plural\$) with (score\$3 assess\$5 evaluat \$4) near3 (engin\$3 algorithm\$ system\$2) | US-PGPUB; USPAT | OR | OFF | 2009/10/25 16:41 |
| SI49 | 989 | (select\$3 identif\$3 choos\$3 pick\$3) with (multiple plural \$) with (score\$3 assess\$5 evalu\$4) near3 (engin\$3 algorithm\$ system\$2) | US-PGPUB; USPAT | OR | OFF | 2009/10/25 16:42 |
| SI50 | 0 | ((post adj score) postscore) same risk | EPO; JPO; DERWENT | OR | OFF | 2009/10/25 16:43 |
| SI51 | 6 | ((post adj score) postscore) | EPO; JPO; DERWENT | OR | OFF | 2009/10/25 16:43 |
| SI52 | 1 | ((post adj score) postscore) and risk\$ | EPO; JPO; DERWENT | OR | OFF | 2009/10/25 16:44 |
| SI53 | 29197 | first same second same scor \$3 | US-PGPUB; USPAT | OR | OFF | 2009/10/25 16:44 |
| SI54 | 0 | 705/36.ccls. | US-PGPUB; USPAT | OR | OFF | 2009/10/25 16:45 |
| SI55 | 1990 | 705/38.ccls. | US-PGPUB; USPAT | OR | OFF | 2009/10/25 16:45 |
| SI56 | 4816 | 705/35.ccls. | US-PGPUB; USPAT | OR | OFF | 2009/10/25 16:45 |
| SI57 | 641 | 705/42.ccls. | US-PGPUB; USPAT | OR | OFF | 2009/10/25 16:45 |

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|------|---------|-----------------------|--------------------|----|-----|---------------------|
| SI58 | 3251 | 235/379 ccls. | US-PGPUB; USPAT | OR | OFF | 2009/10/25 16:45 |
| SI59 | 5164 | 235/380 ccls. | US-PGPUB; USPAT | OR | OFF | 2009/10/25 16:45 |
| SI60 | 121 | SI53 and SI49 | US-PGPUB; USPAT | OR | OFF | 2009/10/25 16:46 |
| SI61 | 0 | @py> "20020107" | US-PGPUB; USPAT | OR | OFF | 2009/10/25 16:47 |
| SI62 | 3599249 | @pd> "20020107" | US-PGPUB; USPAT | OR | OFF | 2009/10/25 16:47 |
| SI63 | 3301760 | s SI60 not SI62 | US-PGPUB; USPAT | OR | OFF | 2009/10/25 16:48 |
| SI64 | 20 | SI60 not SI62 | US-PGPUB; USPAT | OR | OFF | 2009/10/25 16:48 |
| SI65 | 1 | SI64 and financ\$ | US-PGPUB; USPAT | OR | OFF | 2009/10/25 16:48 |
| SI66 | 1 | SI64 and 705/?..ccls. | US-PGPUB; USPAT | OR | OFF | 2009/10/25 16:49 |

EAST Search History (I nterference)

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|-------|--|-------------|------------------|---------|------------------|
| SI67 | 16026 | first same second same scor\$3 | USPAT; UPAD | OR | OFF | 2009/10/25 15:55 |
| SI68 | 405 | (select\$3 identif\$3 choos\$3 pick\$3) with (scor\$3 assessment) near3 (engine algorithm) | USPAT; UPAD | OR | OFF | 2009/10/25 16:39 |
| SI69 | 2980 | (multiple plural\$) with (score\$3 assess\$5 evaluat\$4) near3 (engin\$3 algorithm\$ system\$2) | USPAT; UPAD | OR | OFF | 2009/10/25 16:41 |
| SI70 | 478 | (select\$3 identif\$3 choos\$3 pick\$3) with (multiple plural\$) with (score\$3 assess\$5 evaluat\$4) near3 (engin\$3 algorithm\$ system\$2) | USPAT; UPAD | OR | OFF | 2009/10/25 16:42 |
| SI71 | 266 | 705/36..ccls. | USPAT; UPAD | OR | OFF | 2009/10/25 16:50 |
| SI72 | 891 | 705/38..ccls. | USPAT; UPAD | OR | OFF | 2009/10/25 16:50 |
| SI73 | 2394 | 705/35..ccls. | USPAT; UPAD | OR | OFF | 2009/10/25 16:50 |
| SI74 | 371 | 705/42..ccls. | USPAT; UPAD | OR | OFF | 2009/10/25 16:51 |
| SI75 | 2488 | 235/379..ccls. | USPAT; UPAD | OR | OFF | 2009/10/25 16:51 |
| SI76 | 3837 | 235/380..ccls. | USPAT; UPAD | OR | OFF | 2009/10/25 16:51 |

10/25/09 6:07:06 PM

C:\Documents and Settings\kcampen\My Documents\EAST\workspaces\10041765.wsp